## FORM A - TECHNICAL PROPOSAL SUBMISSION FORM

Simpson Road over Stackpole Creek

SHAWBROTHERS CONSTRUCTION (Name of Proposer)

The above	Proposer	hereby	submits	its	Technical	Proposal,	consisting	of the	following
items:									Č
(Instruction	s Specifi	cally lis	t all iten	ne e	submitted v	with the T	echnical Pr	onocal	including

(Instructions: Specifically list all items submitted with the Technical Proposal, including number of drawings, number of narrative pages, etc. Attach or incorporate additional pages as necessary. Refer to the Project Requirements for additional instructions regarding Technical Proposal submission.)

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By signing below, the above Proposer hereby certifies that to the best of the Proposer's knowledge and belief:

- 1. The Proposer has received and considered complete copies of Amendments numbered  $\underline{\mathsf{L}}$  through  $\underline{\mathsf{L}}$ .
- 2. The Design-Builder, Designer, other Major Participants and key personnel indicated by the Proposer in its Statement of Qualifications will be used on this Project in the same manner and to the same extent as so indicated.
- 3. All of the statements, representations, covenants and/or certifications set forth in the Proposal are complete and accurate as of the date hereof.
- 4. All representations and/or certifications required of the Proposer by the RFP and Contract are complete and accurate.
- 5. This Technical Proposal is responsive.
- 6. The person signing below is legally authorized to do so.

[Any exceptions to the above certifications must be explained in detail on pages attached hereto. Number of pages attached, if any: \_\_\_\_\_\_.]

PROPOSER

Date [Sign in Ink]

3 - 23 - 15

By: Jewathaw E. Shaw President [Name and Title Printed]



## SHAW BROTHERS CONSTRUCTION, INC.

P.O. Box 69 • 341 Mosher Rd. • Gorham, ME 04038 Tel: (207) 839-2552 • Fax: (207) 839-6239 Website: www.shawbrothers.com

March 23, 2015

City of Saco 300 Main Street Saco, Maine 04072

RE: Technical and Price Proposals

Simpson Road over Stackpole Creek Design-Build

#### Dear Sir or Madam:

Shaw Brothers Construction Inc. in association with Sebago Technics, Inc. is pleased to respond to your RFP for design-build engineering and construction services in connection with the replacement of Simpson Road over Stackpole Creek in Saco. Simpson Road is a lightly traveled two lane local road that services abutting residents along the Saco River. The existing stone arch crossing of Stackpole Creek is failing structurally and as such the road is currently closed. The City desires design-builders to propose a rehabilitation or replacement of the existing structure that meets the following basic design requirements. These are:

- The span must provide 2-11 foot travel lanes
- The horizontal alignment of Simpson Road must not vary from the RFP alignment
- The roadway surface width must be 36' from shoulder break to shoulder break (guardrail section)
- The finished grading must be completed within the established clearing limits of the RFP
- H-20 Loading
- Improved hydrology through the structure
- 75 year design life

The Shaw Brothers Team has developed a proposal that meets these requirements, as well as the ability to construct the project within the time parameters outlined in the RFP.

Our package has been organized per your instructions and includes the following materials:

- 1. Technical Proposal Form A (3 originals) and Narrative with Sketches
- 2. Price Proposal Form C
- 3. Proposal Guaranty Form B

Thank you for this opportunity to provide our ideas and approach to addressing your needs. We look forward to working with you to solve this problem, and we anxiously await your selection decision.

Sincerely,

SHAW BROTHERS CONSTRUCTION, INC.

Jon Shaw President



## SHAW BROTHERS CONSTRUCTION, INC.

P.O. Box 69 • 341 Mosher Rd. • Gorham, ME 04038 Tel: (207) 839-2552 • Fax: (207) 839-6239 Website: www.shawbrothers.com

# City of Saco Design-Build Bridge Replacement Project Simpson Road over Stackpole Creek

## **Technical Proposal**

## A. Team Description

The Shaw Brothers Team is led by *Shaw Brothers Construction Inc.*, one of Southern Maine's premier earthwork contractors located in Gorham, Maine. Assisting Shaw Brothers with the structural portions of the construction will be *Cianbro*, of Pittsfield, Maine. Cianbro is Maine's largest heavy civil contractor. The Engineering aspects of the Project will be led by *Sebago Technics, Inc.* of South Portland, a 100-person consulting survey/engineering firm with areas of specialty in survey, transportation engineering, and environmental permitting. Assisting Sebago with the geotechnical design aspects of the project will be *S.W. Cole Engineering* of Gray Maine.

## B. Project Team

The Shaw Brothers Team will be led by Mark Barnes of Shaw Brothers as the Project Manager, and Stephen Sawyer, P.E. of Sebago Technics as the Deputy Project Manager for Design. Mr. Barnes has over 30 years of experience in the construction industry all of which has been spent at Shaw Brothers Construction, Inc. Mr. Sawyer has over 37 years of transportation design experience in Maine and throughout New England, with many projects involving bridges. Mr. Sawyer recently managed the redesign of Exit 3 on I-295 in Portland for MaineDOT, which involved a new bridge over Westbrook Street.

Assisting the Team's Project Management staff will be the following key individuals with their respective roles:

#### Construction:

Joe Bell (Shaw Bros.) - Earthwork Superintendent, 35 years of experience

## **Engineering**

Brad Lyon, P.E. (Sebago) - Highway Designer, 8 years of experience Tim Boyce, P.E. (SW Cole) – Geotechnical Engineer, 30 years of experience

## C. Scope of Services

#### General

The Shaw Brothers Design-Build Team has visited the site, carefully reviewed the City's RFP, and organized a design and construction approach to the Simpson Road Project which will

- 1. provide the City with highly competent and experienced design and construction professionals that possess excellent reputations for completing similar projects, so that the City can feel comfortable they have selected a qualified partner for the Project
- 2. deliver the City a replacement bridge that will meet the desired 75 year design life
- 3. minimize the environmental impacts of the reconstruction by limiting the stream disturbance to that which can be permitted by MaineDEP under their Permit-By-Rule provisions and will result in a natural bottom channel when we are done to enhance the habitat for the known fisheries (Brook Trout and Atlantic Salmon) in Stackpole Creek
- 4. not require the City to obtain any additional land or easements for the proposed construction
- 5. be completed within the desired timeframe set forth in the RFP

## The Proposal - Base Bid

The Shaw Brothers Design-Build Team evaluated several options for the Simpson Road Bridge during the course of preparing this response. In the end we settled on a concept that incorporates a 20-foot precast Conspan arch on cast-in-place stem walls. Wingwalls will be provided on both the upstream and downstream ends of the structure to improve hydraulics and to limit the overall length of stream disturbance. All work will be within the proposed clearing limits shown in the RFP.

We understand that the City will be acquiring the required environmental permits. To this end we will provide support in this effort by providing drawings and quantities that may be appropriate for the applications. In addition, we have limited our stream impact to 75 feet in length which should only require the need to submit a Permit-By-Rule application. We also spoke with the Maine Inland Fisheries Department and learned that Stackpole Creek has both Brook Trout and Atlantic Salmon in it, so our proposal will provide a natural stream bottom through the arch bridge. The fisheries biologist we spoke with thought the 75-foot overall length of our bridge would not present a problem for the native fish. Knowing that there are fish in the Creek, though, we will respect their spawning habits and conduct our in-stream work after July 1.

The roadway typical section across the Creek will be 30 feet between the guardrails with a total overall width of 36 feet from shoulder break to shoulder break. While this width seems large given the documented traffic volumes using the roadway, it is in compliance with the RFP. The side slopes of the embankments will be heavy riprap lined on a slope of 1.5:1 maximum. The guardrails will be MaineDOT Type 3d, with 350 Flared Terminal Ends on all four quadrants.

The horizontal and vertical alignments will be as stated in the RFP for the Base Bid.

The Shaw Brothers Team will coordinate with the existing aerial utilities in advance of the excavation and crane work so that impacts to any existing services can be minimized.

Sebago Technics will develop the design drawings using Autocad software which will meet the general requirements of MaineDOT.

#### **Bid Alternates**

Bid Alternate #1 proposes to construct a stabilized drainage ditch along Simpson Road. This activity will increase the Base Bid price, but not impact the schedule of construction.

Bid Alternate #2 proposes to construct additional length of 30-foot wide roadway on either end of the Base Bid Project Limits. We have assumed that this roadway would have the same typical section as the Base Bid roadway in terms of materials and depths of courses. This activity wills not likely impact the permitting required for the project, but will impact the Base Bid price and schedule.

### Plans and Sketches

We have prepared a Preliminary Plan which illustrates our above-described Base Bid proposal. This plan is attached and labeled Figure 1. Figures 2-5 are preliminary sketches of the proposed Conspan Bridge.

Proposal Qualifications and Assumptions

Shaw Brothers has made the following assumptions in preparing this proposal:

- 1. The topographic survey information, including wetland delineation, provided in the RFP is accurate for design and permitting use, i.e. Shaw Brothers has not included time to verify this data.
- 2. The City will have made all land and easement arrangements by the time construction commences as stated in the RFP.
- 3. The City will have successfully satisfied the Maine Historic Preservation Office, so that this matter does not impact the schedule of construction.
- 4. Rock/Ledge excavation is not included in the alternate #2 and #3 unit prices.
- 5. As stated, Shaw Brothers will coordinate with the utilities on any adjustments in aerial plant required. All costs of such adjustments, if required, to be paid by the owner.

## D. Project Schedule

The Design Phase of the Project will begin immediately following receipt of a Contract and an official Notice to Proceed. According to the RFP this will be by April 24, 2015. Documents will

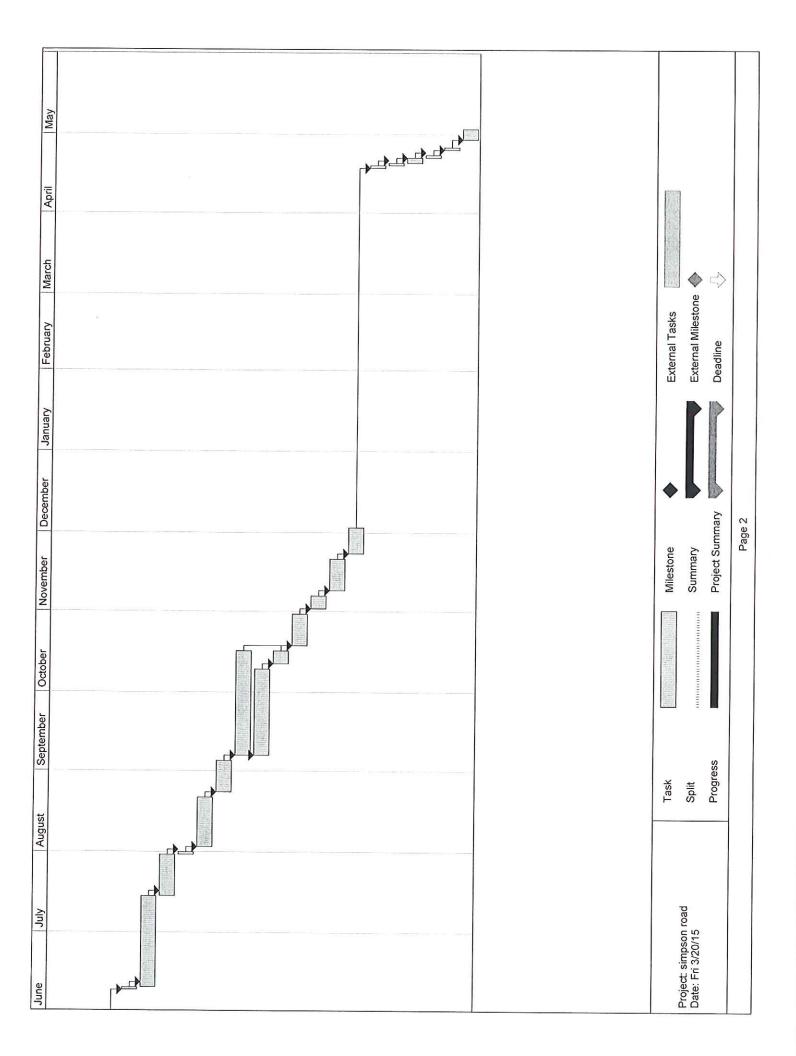
be submitted to the City for final review by May 25th. We anticipate that the City's permitting effort will be concurrent with the design and planning stages of the project.

Construction will commence in August of 2015. Substantial completion of the work (base paving and guardrail installation) will be accomplished by December 15<sup>th</sup>, so that the road can be reopened for traffic. Final completion of the construction will occur by May 15th, 2016, including surface pavement and the submission of As-Built drawings and professional evaluation documentation.

#### E. References

- Town of Hollis, Selectman Ben Severance, Tel. 929-4001 Shaw Brothers/Sebago Technics Design-Build 1 mile of Killock Pond Road in 2006
- Maine Department of Transportation, Project Manager Shawn Smith, Tel. 624-3504 Shaw Brothers and Cianbro Design-Build I-295 Commercial Street Connector in Portland in 2004-5
- Maine Department of Transportation, Project Manager Andy MacDonald, Tel. 624-3480 Shaw Brothers and Louis Berger Group Route 136 Reconstruction Design-build, Freeport, 2009-2010

₽	0	Task Name	Direction	Ctot	- Drong Asinia		1000		
-	I	Technical&Price Proposals Due	1 day	Mon 3/23/15	Mon 3/23/15	Malci	- April	May	
2		Award Project & Execute Contract	1 day	Fri 4/24/15	Fri 4/24/15 1		<b>-</b>	,	
က	A	Execution of Agreement by Design-Builder	1 day	Fri 5/1/15	Fri 5/1/15 2				-
4		Final Bridge Design Submission	1 day	Mon 5/25/15	Mon 5/25/15 3			<b>,</b>	
ည		Design Resolution Meeting	1 day	Tue 6/9/15	Tue 6/9/15 4FS+10 days			<b>-</b>	
မ		Resubmit Design	25 days	Wed 6/10/15	Tue 7/14/15 5				
7		Design Approval	12 days	Wed 7/15/15	Thu 7/30/15 6				
œ		Mobilize	1 day	Fri 7/31/15	Fri 7/31/15 7				
თ		Demo Exist Bridge	15 days	Mon 8/3/15	Fri 8/21/15 8				
10		Excavate Footings	10 days	Mon 8/24/15	Fri 9/4/15 9				
1		order wing walls	30 days	Mon 9/7/15	Fri 10/16/15 10				
12		Place Footings	25 days	Mon 9/7/15	Fri 10/9/15 10				
13		Backfill Footings	5 days	Mon 10/12/15	Fri 10/16/15 12				
14		Set Precast Arch and Wing Wall	10 days	Mon 10/19/15	Fri 10/30/15 13,11				
15		BackFill Structures	5 days	Mon 11/2/15	Fri 11/6/15 14				
16		Road Excavation/Gravel	10 days	Mon 11/9/15	Fri 11/20/15 15				
17		Rip Rap Slopes	8 days	Mon 11/23/15	Wed 12/2/15 16				
18		Fine Grade Road	1 day	Mon 4/18/16	Mon 4/18/16 17				
19		Pave Road	1 day	Tue 4/19/16	Tue 4/19/16 18				
20		Guard Rail Instalation	2 days	Wed 4/20/16	Thu 4/21/16 19		======		
21		Finish Pave	1 day	Fri 4/22/16	Fri 4/22/16 20			_	
22		Clean up	1 day	Mon 4/25/16	Mon 4/25/16 21				
23		Demob	2 days	Fri 4/29/16	Mon 5/2/16 22				
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				Page 1					



Appendix A Form C

## FORM C - PRICE PROPOSAL

Simpson Road over Stackpole Creek

(Name of Proposer)

The above named Proposer hereby offers to perform and complete all Work specified or indicated in the Contract Documents in conformity with the same for the Price shown below.

LUMP SUM PRICE - BASE BID

Ninehondred throughout through dellas & Wo Cents
(Price in words - typed or printed in ink)

\$ 934,000,00 (Price in numbers – typed or printed in ink)

### LUMP SUM PRICE - BID ALTERNATE # 1

Bid Alternate # 1 – This Alternate shall consist of excavating for and constructing a stabilized stone protected drainage ditch alongside Simpson Road up to a distance of 250 feet from the bridge abutments in either direction, and on either side of the roadway. Per linear foot price for this Alternate should include costs of furnishing all materials, labor and other incidentals necessary to satisfactorily construct the Stone Ditch Protection.

(Price in words - typed or printed in ink)

\$ 44,50

\$\_44,50 (Price in numbers – typed or printed in ink)

#### PER LINEAR FOOT PRICE - BID ALTERNATE # 2

Bid Alternate # 2 – This Alternate shall consist of constructing additional length of full depth roadway reconstruction beginning at the bridge abutments and up to 250 linear feet in either direction. The additional length of roadway reconstruction shall use an 11-foot travel lane width with 3-foot gravel shoulders. Per linear foot price for this Alternate should include costs of furnishing all materials, labor and other incidentals necessary to satisfactorily construct this Alternate.

(Price in words - typed or printed in ink)

\$\_\_\_\_\_\_(Price in numbers – typed or printed in ink)

Appendix A Form C

By signing below, the above Proposer hereby certifies that to the best of the Proposer's knowledge and belief:

- 1. The Proposer has received and considered complete copies of Amendments numbered through \_\_\_\_\_\_\_.
- 2. All representations and/or certifications required of the Proposer by the RFP and Contract are complete and accurate.
- 3. The Proposer's Price Proposal is complete and accurate and conforms to all applicable requirements of the RFP and Contract.
- 4. The person signing below is legally authorized to do so.

[Any exceptions to the above certifications must be explained in detail on pages attached hereto. Number of pages attached, if any: \_\_\_\_\_.]

PROPOSER SA	3-23-15	
Date [Sign in Ink.] By: Zowathaw E. 31	Au Prosident	

Appendix A Form B

## FORM B - PROPOSAL GUARANTEE FORM

KNOW	ALL	MEN	BY	THESE	PRESENTS	THAT
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shall in all of	ther respects	perform the	agreement	created by the	acceptance of said	t proposal
then this obl	igation shall	be null and	void: otherv	vise it shall re	main in full force a	nd effect
Signed and s	sealed this _	2014	day o	of March	, 2015	•
WITNESS:	D		PRINCIPA	L: SHAW BE	OTHERS CONST	RUCTION, INC.
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#### POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company Travelers Casualty and Surety Company Travelers Casualty and Surety Company of America United States Fidelity and Guaranty Company

Attorney-In Fact No.

227338

Certificate No. 006016576

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Daniel E. Church, Bruce H. Langley, William Ver Planck, Paula J. Cantara, John P. Timmeny, John T. Whiting, Michael P. O'Brien, Christine M. Hosmer, Ryan Stevens, John M. Harbottle, and Robert J. Donnelly III

of the City of	Concord		, State o		Hampshire	, ti	neir true and lawful	Attorney(s)-in-Fact,
other writings obl	igatory in the na	nore than one is name ature thereof on beha eeing bonds and und	alf of the Compar	nies in their busine	ss of guaranteeing	nd all bonds, reco	gnizances, conditio ersons, guaranteeing	nal undertakings and g the performance of
IN WITNESS W. day ofAugus		Companies have cause , 2014 .	ed this instrument	to be signed and t	heir corporate sea	s to be hereto affi	ixed, this	11th
		Farmington Casua Fidelity and Guara Fidelity and Guara St. Paul Fire and M St. Paul Guardian	anty Insurance C anty Insurance U Jarine Insurance	Inderwriters, Inc. e Company	Trav Trav	elers Casualty ar elers Casualty ar	urance Company nd Surety Compan nd Surety Compan r and Guaranty Co	y of America
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State of Connectic City of Hartford se					Ву:	Robert L. Rane	y, Senior Vice Presiden	nt
Fire and Marine In Casualty and Sure	President of Fara surance Compar ty Company of A	ny, St. Paul Guardian	Insurance Comp States Fidelity an	and Guaranty Insur any, St. Paul Merci id Guaranty Compa	ance Company, Fi ary Insurance Con any, and that he, a	delity and Guaran npany, Travelers C s such, being auth	ty Insurance Under- Casualty and Surety	owledged himself to writers, Inc., St. Paul Company, Travelers ecuted the foregoing

In Witness Whereof, I hereunto set my hand and official seal. My Commission expires the 30th day of June, 2016.



Marie C. Tetreault, Notary Public

## SHAW BROTHERS CONSTRUCTION, INC.

I, Peter S. Plumb, Clerk of SHAW BROTHERS CONSTRUCTION, INC., certify that the following named individuals hold the offices set forth opposite their respective names as of the date below:

President:

Jonathan E. Shaw

Treasurer:

Daniel H. Shaw

Vice-President:

Thomas B. Biegel

Clerk:

Peter S. Plumb

I further certify that the following are true and exact copies of resolutions of the Corporation's Board of Directors and that said resolutions have not been altered or amended to the date of this certificate:

RESOLVED: To authorize the President, Vice-President and Treasurer of SHAW BROTHERS CONSTRUCTION, INC., or any one of them, to make verbal and written bids on behalf of the Corporation for construction work of any type and nature, including but not limited to earth work, road work, sidewalk work, foundation work and all other manner of work which can be reasonably described as construction work to any organization, whether public or private, anywhere within the State of Maine, at any time, and to fill out, execute and sign on behalf of the Corporation any and all documents which may be required from time to time by the person or organization or governmental entity seeking the bid. The authority of the Vice-President is limited to contracts with a face amount of no more than two million dollars (\$2,000,000).

Dated: September 23, 2014

Peter S. Plumb, Clerk

State of Maine Cumberland, ss.

September 23, 2014

Personally appeared before me the above-named Peter S. Plumb in his capacity as Clerk and made oath that the foregoing statements are made on personal knowledge and are true.

Notary Public

SHARON C. GIGGEY
A NOTARY PUBLIC OF MAINE
MY COMMISSION EXPIRES JULY 24, 2018



## BRIDGE SUMMARY

1 cell of CON/SPAN® Bridge System 20' Span x 11'-8 3/8" Rise

Length: 64'

**Downstream Headwall:** Height= 4'-8" from arch crown.

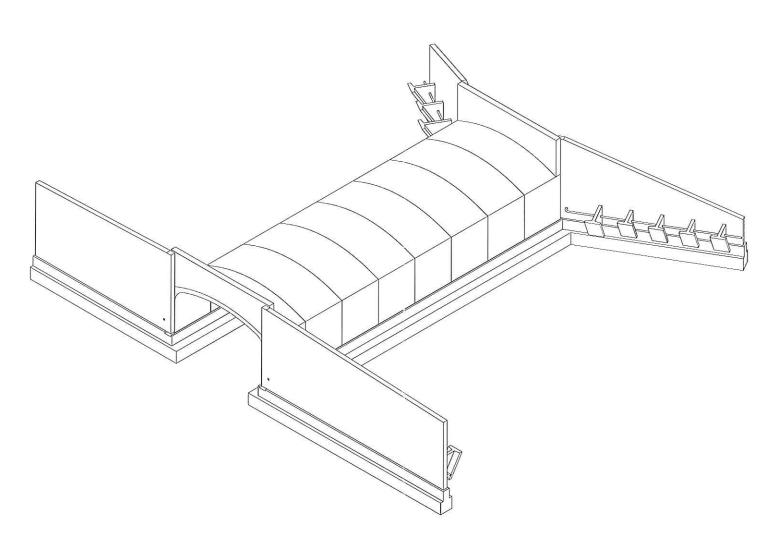
**Upstream Headwall:** Height= 4'-8" from arch crown.

Wingwall 1: Length= 20' - Angle= 60° - End Height= 8'-11"

Wingwall 2: Length= 30' - Angle= 60° - End Height= 4'-11" Wingwall 3: Length= 30' - Angle= 90° - End Height= 13'-11"

Wingwall 4: Length= 40' - Angle= 90° - End Height= 12'-11"

Upstream



Downstream

## ISOMETRIC VIEW

The design and information shown on this drawing is provided as a service to the project owner, engineer and contractor by Contech Engineered Solutions LLC or one of its affiliated companies ("Contech"). Neither this drawing, nor any part thereof, may be used, reproduced or modified in any manner without the prior written consent of Contech. Failure to comply is done at the user's own risk and Contech expressly disclaims any liability or responsibility for such use.

If discrepancies between the supplied information upon which the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech immediately for re-evaluation of the design. Contech accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.

ENGINEERED SOLUTIONS LLC

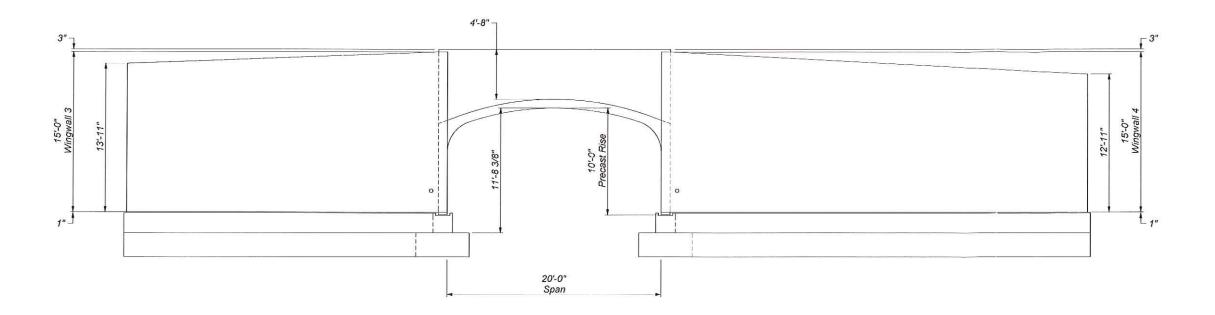
www.ContechES.com

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 800-338-1122 513-645-7000 513-645-7993 FAX CON SPAN BRIDGE SYSTEMS CONTECH DYOB Simpson Road Over Stackpole Creek

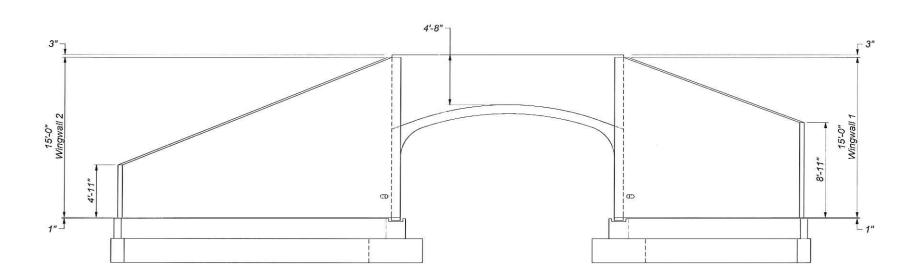
Saco, ME

SHEET NO,:	DF 3
CHECKED:	APPROVED:
DESIGNED: DYOB	DRAWN: DYOB
PROJECT NUMBER:	03/19/15

## Upstream Wingwall 2 Wingwall 3 Wingwall 4 30'-0" 20'-0" Downstream **BRIDGE PLAN** The design and information shown on this drawing is provided as a service to the project owner, engineer and contractor by Contech Engineered Solutions LLC or one of its affiliated companies ("Contech"). Neither this drawing, nor any part thereof, may be used, reproduced or modified in any manner without the prior written consent of Contech. Failure to comply is done at the user's own risk and Contech expressly disclaims any liability or responsibility for such use. ROJECT NUMBER: 142055 03/19/15 Simpson Road Over CONISPAN Stackpole Creek DYOB DYOB ENGINEERED SOLUTIONS LLC CHECKED: www.ContechES.com If discrepancies between the supplied information upon which the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech immediately for re-evaluation of the design. Contech accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others. DYOB 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 SHEET NO.: 2 of 3 Saco, ME 800-338-1122 513-645-7000 513-645-7993 FAX



## **DOWNSTREAM END ELEVATION**



## **UPSTREAM END ELEVATION**

The design and information shown on this drawing is provided as a service to the project owner, engineer and contractor by Contech Engineered Solutions LLC or one of its affiliated companies ("Contech"). Neither this drawing, nor any part thereof, may be used, reproduced or modified in any manner without the prior written consent of Contech. Failure to comply is done at the user's own risk and Contech expressly disclaims any liability or responsibility for such use.

If discrepancies between the supplied information upon which the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech immediately for re-evaluation of the design. Contech accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.

**C**NTECH **ENGINEERED SOLUTIONS LLC** www.ContechES.com

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 800-338-1122 513-645-7000 513-645-7993 FAX



Simpson Road Over Stackpole Creek

ROJECT NUMBER: DATE: 03/19/15 DYOB DYOB SHEET NO.: 3 OF 3 Saco, ME